



FORM PTO-1449 TO BE FILED WITH  
INFORMATION DISCLOSURE STATEMENT

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No. 1229-009 Serial No. 10/081,865

INFORMATION  
DISCLOSURE STATEMENT  
BY APPLICANTS

Malmberg, et al.

Applicant

01/10/2002

Filing Date

1651

Group Art Unit

RECEIVED

JUL 10 2003

TECH CENTER 1600/2900

*[Signature]*  
Examiner's name

U.S. PATENT DOCUMENTS

| Examiner's Initial | Document Number | Date  | Name               | Class/Sub-class |
|--------------------|-----------------|-------|--------------------|-----------------|
| <i>[Signature]</i> | 3,546,0372      | 12/70 | Araki, et al.      | 195/47          |
| <i>[Signature]</i> | 4,769,061       | 9/88  | Comai              | 504/206         |
| <i>[Signature]</i> | 5,214,165       | 5/93  | Sutherland, et al. | 549/433         |
| <i>[Signature]</i> | 5,605,818       | 2/97  | Katsumata, et al.  | 435/108         |

FOREIGN PATENT DOCUMENTS

| Country | Patent No. | Inventor(s) |
|---------|------------|-------------|
| None    |            |             |
|         |            |             |
|         |            |             |
|         |            |             |

OTHER DOCUMENTS

1. "Recovery of Shikimic Acid Using Temperature-Swing Complexation Extraction and Displacement Back Extraction," Miles, et al., *Isolation & Purification*, 1994, vol. 2, pp 75-82.

*[Signature]*

9/22/03

2. "The Biosynthesis and Synthesis of Shikimic Acid, Chorismic Acid and Related Compounds," Campbell, et al., *Synthesis*, Feb., 1993, pp. 179-193.
3. "Chemical Synthesis of Shikimic Acid and Its Analogues," Jiang, et al., *Tetrahedron* Report No. 449, vol. 54, 1998, pp 4697-4753.

|                                 |                                |
|---------------------------------|--------------------------------|
| Examiner <i>Robert J. Green</i> | Date Considered <i>9/22/03</i> |
|---------------------------------|--------------------------------|

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

FORM PTO-1449 TO BE FILED WITH  
INFORMATION DISCLOSURE STATEMENT

RECEIVED

JUN 03 2002

Technology Center 2600

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No. 1229-009 Serial No. 10/051,864 10/041,865  
B10 1229-009

INFORMATION  
DISCLOSURE STATEMENT  
BY APPLICANTS

Malmberg, et al.  
Applicant

01/10/2002  
Filing Date

1657  
Group Art Unit

Examiner's name



U.S. PATENT DOCUMENTS

| Examiner's Initial | Document Number | Date  | Name               | Class/Sub-class |
|--------------------|-----------------|-------|--------------------|-----------------|
|                    | 3,546,6372      | 12/70 | Araki, et al.      | 195/47          |
|                    | 4,769,061       | 9/88  | Comai              | 504/206         |
|                    | 5,214,165       | 5/93  | Sutherland, et al. | 549/433         |
|                    | 5,605,818       | 2/97  | Katsumata, et al.  | 435/108         |

FOREIGN PATENT DOCUMENTS

| Country | Patent No. | Inventor(s) |
|---------|------------|-------------|
| None    |            |             |
|         |            |             |
|         |            |             |
|         |            |             |

OTHER DOCUMENTS

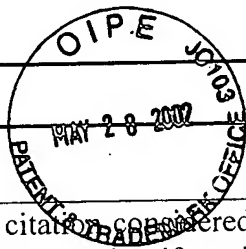
1. "Recovery of Shikimic Acid Using Temperature-Swing Complexation Extraction and Displacement Back Extraction," Miles, et al., *Isolation & Purification*, 1994, vol. 2, pp 75-82.

THE FOLLOWING  
ATTACHED ARE DUPLICATES

RECEIVED  
MAY 27 2003  
TECH CENTER 1600/2500

2. "The Biosynthesis and Synthesis of Shikimic Acid, Chorismic Acid and Related Compounds," Campbell, et al., *Synthesis*, Feb., 1993, pp. 179-193.
3. "Chemical Synthesis of Shikimic Acid and Its Analogues," Jiang, et al., *Tetradron* Report No. 449, vol. 54, 1998, pp 4697-4753.

|          |                 |
|----------|-----------------|
| Examiner | Date Considered |
|----------|-----------------|



Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

The identification of any document herein is not intended to be, and should not be understood as being, an admission that each such document, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given document may have a later effective date than at first seems apparent or the document may have an effective date which can be antedated. The "prior art" status of any document is a matter to be resolved during prosecution.

RECEIVED

JUN 03 2002

Technology Center 2600

RECEIVED  
MAY 27 2003  
TECH CENTER 1600/2600